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PATENT ABSTRACTS OF JAPAN

(11)Publication number : 07-311383
(43)Date of publication of application : 28.11.1995

(51)Int.Cl.

G02F 1/1337
G02F 1/1343

(21)Application number : 06-104044

(71)Applicant : SANYO ELECTRIC CO LTD

(22)Date of filing : 18.05.1994

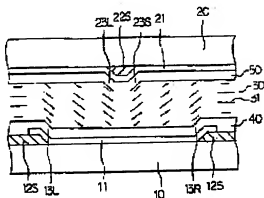
(72)Inventor : KOMA TOKUO

(54) LIQUID CRYSTAL DISPLAY DEVICE

(57)Abstract:

PURPOSE: To provide a liquid crystal display device of a wide visual field angle by dividing display pixels and specifying orientation vectors of liquid crystal directors.

CONSTITUTION: This liquid crystal display device has the following structure, in which inclined parts 13L, 13R for orientation control are formed by interposing section layers 12 for orientation control in the lower layers at the peripheral edges of the display pixel regions of lower transparent electrodes 11 to build up the contact surfaces with a liquid crystal layer 30 and inclined parts 23L, 23R for orientation control are also formed by interposing sectional layers 22S for orientation control in the lower layers within the display pixel regions of upper transparent electrodes 21. The orientation directions of the liquid crystal directors 31 are controlled by these inclined parts 13L, 13R, 23L, 23R and the orientation states are made uniform in the respective zones divided into the right and left zones by the effect of the continuum characteristic of the liquid crystals. In addition, the dependency on the visual angles is lessened by making the orientation vectors of respective zones different from each other.



LEGAL STATUS

[Date of request for examination] 03.12.1997

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number] 3005418

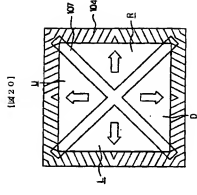
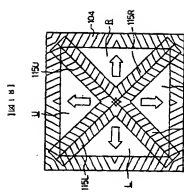
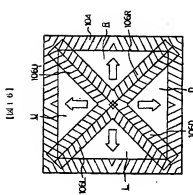
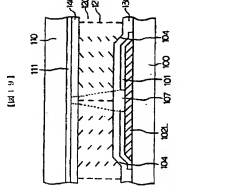
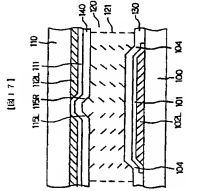
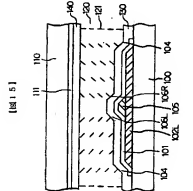
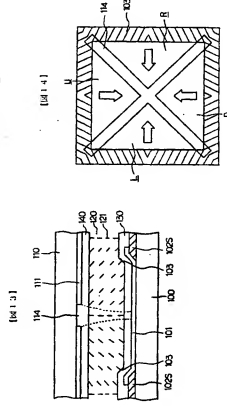
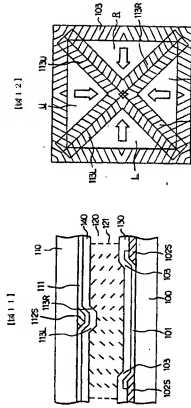
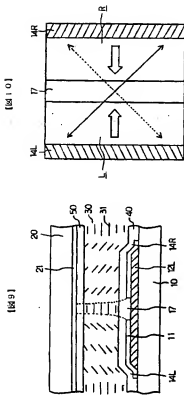
[Date of registration] 19.11.1999

[Number of appeal against examiner's decision of rejection]

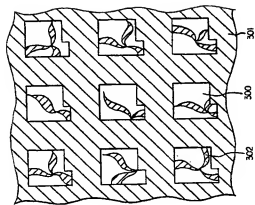
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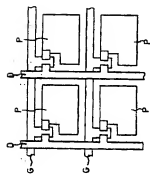
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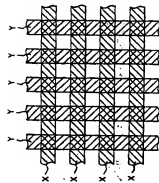
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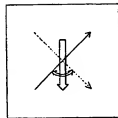
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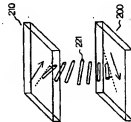
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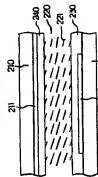
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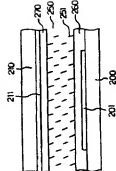
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[図23]



[図25]



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